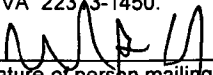


"Express Mail" Label Number EV 485937241 US  
I hereby certify that this correspondence is being deposited with the United States  
Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10  
on October 10, 2006 and is addressed to Mail Stop PCT, Commissioner for Patents,  
P.O. Box 1450, Alexandria, VA 22313-1450.

  
(Signature of person mailing correspondence)

Mark A. Hixon  
(Typed name of person mailing correspondence)

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

|  |   |                         |
|--|---|-------------------------|
| In re Application of:                      | ] |                         |
| GEORG MARKOWZ et al                        | ] | Group Art Unit:         |
|  | ] |                         |
| U.S. Application No. 10/553,312            | ] |                         |
| Filing Under 35 U.S.C. 371 in the DO/EO/US | ] | Examiner:               |
| of PCT/EP2004/003377 filed 31 March 2004   | ] |                         |
|  | ] |                         |
| For: MICROREACTOR COMPOSED                 | ] | Attorney Docket 1-17149 |
| OF PLATES AND COMPRISING                   | ] |                         |
| A CATALYST                                 | ] |                         |

October 10, 2006

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

### INFORMATION DISCLOSURE STATEMENT

Honorable Sir:

Pursuant to Section 1.97 of Title 37 of the Code of Federal Regulations, and  
prior to the issuance of a first office action, record is hereby made of information the  
United States Patent and Trademark Office may wish to consider during examination of  
the above-entitled application which is being filed concurrently herewith under 35  
U.S.C. 371. No representation is made or intended that a prior art search was  
conducted, or that no better art than that listed is available.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /W.L./

As this Information Disclosure Statement is being submitted prior to a first Office Action on the merits, it is respectfully submitted that no fee is required for consideration of this IDS.

The following documents were cited in the specification of the present application, which also serves as a statement of relevance for any of the non-English references:

|                 |  |
|-----------------|--|
| US 2002/0106311 | page 1   |
| US 5,534,328    | page 1   |
| DE 39 26 466    | pages 1-2  |
| DE 196 54 361   | page 2   |
| EP 1 031 375    | pages 2-3  |
| EP 0 903 174    | page 3 (also cited in the International Search Report and corresponds to CA 2,247,662) |
| DE 100 42 746   | pages 3-4 (corresponds to US 2002/028164)  |

The following documents and article were cited in the International Search Report of the corresponding International Application, a copy of which is attached hereto for the Examiner's convenience. The International Search Report, along with its English translation, serves as a statement of relevance for any of the cited non-English references.

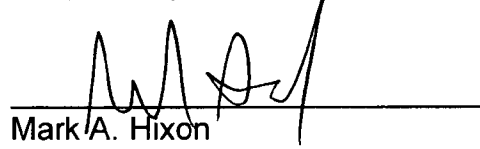
WO 98/37457 (corresponds to US 6,409,072)

EP 0 903 174 (corresponds to CA 2,247,662); and

Janicke, Michael T., et al; "The Controlled Oxidation of Hydrogen from an Explosive Mixture of Gases Using a Microstructured Reactor/Heat Exchanger and Pt/Al<sub>2</sub>O<sub>3</sub> Catalyst"; Journal of Catalysis; April 25, 2000; pages 282-293; Volume 191, No. 2, Academic Press, Duluth, Minnesota, US.

Copies of the above-noted foreign documents, along with the cited Janicke et al article, are enclosed herewith, along with Forms PTO/SB/08A and PTO/SB/08B. It is requested that they be fully considered and made of record in this case.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Mark A. Hixon', is written over a horizontal line.

Mark A. Hixon  
Registration No. 44,766

ATTORNEYS

Customer Number 001678  
MARSHALL & MELHORN, LLC  
Four SeaGate - 8<sup>th</sup> Floor  
Toledo, Ohio 43604

Phone: (419) 294-7114  
Fax: (419) 249-7151

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

|                        |                     |
|------------------------|---------------------|
| Application Number     | 10/553,312          |
| Filing Date            |                     |
| First Named Inventor   | Georg Markowz et al |
| Art Unit               |                     |
| Examiner Name          |                     |
| Attorney Docket Number | 1-17149             |

Sheet 1 of 3

**U. S. PATENT DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|--------------------|-----------------------|--|--------------------------------|--|---|
|                    |                       | Number-Kind Code <sup>2</sup> (if known) |                                |  |   |
|                    |                       | US- 2002/0028164 A1                      | 03-07-2002                     | Schutte et al                                      | corrsp to DE10042746  |
|                    |                       | US- 2002/0106311 A1                      | 08-08-2002                     | Golbig et al                                       |   |
|                    |                       | US- 5,534,328 B1                         | 07-09-1996                     | Ashmead et al                                      |   |
|                    |                       | US- 6,409,072 B1                         | 06-25-2002                     | Breuer et al                                       | corrsp to WO9837457   |
|                    |                       | US-                                      |                                |  |   |
|                    |                       | US-                                      |                                |  |   |
|                    |                       | US-                                      |                                |  |   |
|                    |                       | US-                                      |                                |  |   |
|                    |                       | US-                                      |                                |  |   |
|                    |                       | US-                                      |                                |  |   |
|                    |                       | US-                                      |                                |  |   |
|                    |                       | US-                                      |                                |  |   |
|                    |                       | US-                                      |                                |  |   |
|                    |                       | US-                                      |                                |  |   |
|                    |                       | US-                                      |                                |  |   |
|                    |                       | US-                                      |                                |  |   |
|                    |                       | US-                                      |                                |  |   |
|                    |                       | US-                                      |                                |  |   |
|                    |                       | US-                                      |                                |  |   |
|                    |                       | US-                                      |                                |  |   |
|                    |                       | US-                                      |                                |  |   |
|                    |                       | US-                                      |                                |  |   |

**FOREIGN PATENT DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Foreign Patent Document   | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>Or Relevant Figures Appear | T <sup>6</sup> |
|--------------------|-----------------------|---|--------------------------------|--|---|----------------|
|                    |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                                |  |   |                |
|                    |                       | CA 2,247,662 A1   | 03-22-1999                     | Schubert et al                                     | corrsp EP0903174  |                |
|                    |                       | EP 0 903 174 A1   | 03-24-1999                     | Schubert et al                                     | corrsp EP0903174  |                |
|                    |                       | EP 1 031 375 B1   | 08-30-2000                     | Oberbeck et al                                     | (w/English claims)  | X              |
|                    |                       | DE 100 42 746 A1  | 03-28-2002                     | Schuetz et al                                      | corrsp US20020028164  |                |
|                    |                       | DE 196 54 361 A1  | 06-25-1998                     | Brenner et al                                      |   |                |
|                    |                       | DE 39 26 466 A1   | 02-14-1991                     | Schmid et al                                       |   |                |

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /W.L./

Substitute for form 1449/PTO

**(Use as many sheets as necessary)**

|                        |         |
|------------------------|---------|
| Attorney Docket Number | 1-17149 |
|------------------------|---------|

Sheet 2 of 3

[illegible][illegible]

|            |  |
|------------|--|
| Date       |  |
| Considered |  |

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /W.L./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

|                        |                     |
|------------------------|---------------------|
| Application Number     | 10/553,312          |
| Filing Date            |                     |
| First Named Inventor   | Georg Markowz et al |
| Art Unit               |                     |
| Examiner Name          |                     |
| Attorney Docket Number | 1-17149             |

Sheet

3

of

3

**NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.  | T <sup>2</sup> |
|--------------------|-----------------------|--|----------------|
|                    |                       | JANICKE, MICHAEL T., et al; The Controlled Oxidation of Hydrogen from an Explosive Mixture of Gases Using a Microstructured Reactor/Heat Exchanger and Pt/Al <sub>2</sub> O <sub>3</sub> Catalyst; Journal of Catalysis; April 25, 2000; pages 282-293; Volume 191, No. 2, Academic Press, Duluth, Minnesota, US |                |
|                    |                       |  |                |
|                    |                       |  |                |
|                    |                       |  |                |
|                    |                       |  |                |
|                    |                       |  |                |
|                    |                       |  |                |
|                    |                       |  |                |
|                    |                       |  |                |
|                    |                       |  |                |
|                    |                       |  |                |

|                    |                |                 |            |
|--------------------|----------------|-----------------|------------|
| Examiner Signature | /Wayne Langel/ | Date Considered | 08/21/2008 |
|--------------------|----------------|-----------------|------------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /W.L./